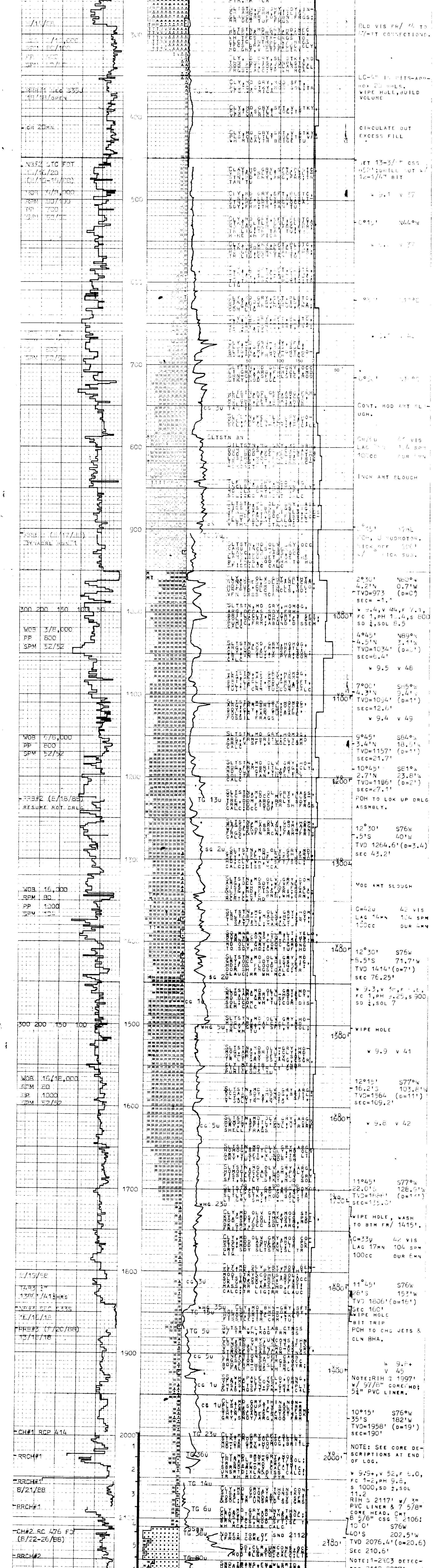


		S SALINITY
W	WEIGHT	R RESISTIVITY
V	VISCOSEITY	RF FILTRATE
F	FILTRATE	BIT DATA
FC	FILTER CAKE	NB NEW BIT
SD	SAND IN %	RRB RERUN
DATE		8/13/88 TO 8/28/88
<p align="center">- W E G E -</p> <p align="center">WESTERN GEO-ENGINEERS</p>		
		DEPTH
Drilling Rate In F T / Hr		
Bit Data		
100	200	300
400	500	600
700	800	900
1000	1100	1200
1300	1400	1500
1600	1700	1800
1900	2000	2100
2200	2300	2400
2500	2600	2700
2800	2900	3000
3100	3200	3300
3400	3500	3600
3700	3800	3900
4000	4100	4200
4300	4400	4500
4600	4700	4800
4900	5000	5100
5200	5300	5400
5500	5600	5700
5800	5900	6000
6100	6200	6300
6400	6500	6600
6700	6800	6900
7000	7100	7200
7300	7400	7500
7600	7700	7800
7900	8000	8100
8200	8300	8400
8500	8600	8700
8800	8900	9000
9100	9200	9300
9400	9500	9600
9700	9800	9900
10000	10100	10200
10300	10400	10500
10600	10700	10800
10900	11000	11100
11200	11300	11400
11500	11600	11700
11800	11900	12000
12100	12200	12300
12400	12500	12600
12700	12800	12900
13000	13100	13200
13300	13400	13500
13600	13700	13800
13900	14000	14100
14200	14300	14400
14500	14600	14700
14800	14900	15000
15100	15200	15300
15400	15500	15600
15700	15800	15900
16000	16100	16200
16300	16400	16500
16600	16700	16800
16900	17000	17100
17200	17300	17400
17500	17600	17700
17800	17900	18000
18100	18200	18300
18400	18500	18600
18700	18800	18900
19000	19100	19200
19300	19400	19500
19600	19700	19800
19900	20000	20100
20200	20300	20400
20500	20600	20700
20800	20900	21000
21100	21200	21300
21400	21500	21600
21700	21800	21900
22000	22100	22200
22300	22400	22500
22600	22700	22800
22900	23000	23100
23200	23300	23400
23500	23600	23700
23800	23900	24000
24100	24200	24300
24400	24500	24600
24700	24800	24900
25000	25100	25200
25300	25400	25500
25600	25700	25800
25900	26000	26100
26200	26300	26400
26500	26600	26700
26800	26900	27000
27100	27200	27300
27400	27500	27600
27700	27800	27900
28000	28100	28200
28300	28400	28500
28600	28700	28800
28900	29000	29100
29200	29300	29400
29500	29600	29700
29800	29900	30000

CR CIRCULATE RETURNS
NR NO RETURN
DST DRILL STEM TEST
[DST INTERVAL
] CORE INTERVAL

1 | ENGINEERS J. DUVALL
| B. FORTWOOD

UD or CUTTINGS Tr x Fair x Good xxx V-Gd



-RRCH#2 (8/27/88) 2200' TG 3170 SD LT GRY FGR MOD SRID; SBANG; L1&DK HICA ABUND; CALC; LOOSE-FRI COM; LIG VD 50
TG 90 SMO TRANS; FN; SBANG SBRAD; MOD; TO; V WLS SRID DOM; UNCONS; GLY RAD; V STRIXADALE GRY SOL; CALC; MUSG; BIOT 2200' VD 50

-RRCH#2
-RRCH#2
2300
9
10
TG 11U SNO, LT GRY, QTZ, FGR-
VFG, MOD SRTO, SBANG,
FRI-FIRM, CALC, MIC; CLY,
LT GRY, SFT, SOL
TG 200 SNO, LT GRY, QTZ, FGR-VFG
MOD SRTO, FRM-FRI, SB-

NB#5 STC FDT
12/13/16

2300 11 TG 200 MOD SKTD FRH-FRI SB-
ANG SLI CALC MI
CLV+SLI GRY SP LTLY
STK+, SOLILIGNITE BLK,
FRI

TG 82u LIG SEAMS BLK DK BRN,
SG 19u AM TAB FAGS CONCH
FRAC VIT LUS FIRE OCC
GRDS TO COAL V BR TL.

9°30' S77
48.7'S 238
TVD 2292' (D=2
SEC 247.7'

GRDS TO COAL, V BRITL:
SD, CALC, MUSC, BIOTT

SD, TRANS, FN GRDS SB-
ANG-SBROOD, V
CLN, LOOSE, Y WL\$R
TD: ABNDNT CALCX
MUSC+BIOTT IRREG FRGS

LOSE 20+ BBLS
OVER SHK: IN

WOB	10/12,000	2400	CC 5TU	FGRS	OVER SHKR; IN 40 MESH SCREE
RPM	90		SND/SS, C OZ FS DOM, CLOUDY, UNCONS DOM, FIN GRB, DOM, DNT CALCO, MUSC, DE LIG, BIOTT, INCER AMT		
PP	700		RD VLC FGRS - POSS		
SPM	60		JSPR		

W 9.3
V 39

SG 2500 8°45' S76W
56.7'S 271.8
TVD 2505.5 (P=2)

WOB 10-12,000
RPM 90

SG 180

SLT STN; FRAM & FNCY BUD
PYR; MCA; CALC; LIG

SD, LT, GRY, F-MD, GRIMOD
WL-SR TD, SBAND, QZ, FEW
VOLC LITH, FRAGS, TU
PALE GRN, HOMOG, FEW, ES
XLS, FRM, CALC, TR, MICA;
Y RARE PYR

TVD 2505.5 (D=2
SEC 281.9'

RPM 90
PP 700
SPM 60

2600

SS, LT, GRY, QTZ, F-MDGR,
MOD, SRTD, SBANG, FRM
SUGARY, COM, MICAL
IR, PYR, FEW, VOLC, FRAGS
ABUND, CALC, TR, LT, GRN
GLY

CC 18U SS, LT, GRY, QTZ, F-CG GR.

2600

w 9.7
v 43

w 9.6, v 40, PV
XB 8 5 6 3 5

CG 18U OS,LT GRY, QTZ, F-C SGR,
PRLY SRID: SUCAOSIC
SBANG-ANG FRM-FRI, CALC,
TR MICA, T PYR AL, CLY & DK,
BRN SET PLISTON AL, LT
STK, MOD SOL, IR PALE
GRN CLY

CG 13B SS,LT GRY, QTZ, ARG, CALC,
MIC, F-MDGR, MOD SRID
SBANG, FRM-FRI, CALC, CMT:

2700 2700 50 VD
CC 23U TG 17U S73°W
S & CTZ-LTHC LT GRY, F-
CS GR CLCY SATD BASH, FERM.
F GRAINS STU LT GRN, SFT-
FIRM CARB SH, DK BAN.
V V V V T T T LAM, FERM
LITHC GRAINS
S BANG, FIRM-FRD CALSO CMT;
TR PGR TR LID, IR VOLC

FINAL SURVEY S
2770':
8° 15' S 73W
66.3'S 305.
TVD 2741' (D=29
SEC 316.74'

SEC 210.74

CORE #1 1997'-2026'. CORE 29', REC 29-3/4'. SILTSTONE, DK GRY, DOM MASSIVE & HOMOG w/ RUDIMENTARY LAMINATIONS, LOW DENSITY, MOD SOFT; WELL-DISSEM PYR & MICA
CORE #2 2026'-2056'. CORE 30', REC 28'. CLAYSTONE, DK GRY, WAXY TEXT, FISSILE, UNDUL PARTING LINEATED, FIBROUS, MOD FIRM, NON-FRI, DISSEM CALCITE, TRACE PYR.

LINERATED, FIBROUS, MOD FIRM, NON-FRI, DISSEM CALCITE, TRACE PYR.
CORE #3 2056'-2087'. CORE 31', REC 28½'. CLAYSTONE, MD GRY, HOMOG, BRITTLE, MIC; SILTSTONE,
MED-DK GRY, HOMOG, ARG, BRITTLE-HARD, MIC, WKLY FISSILE; TRACE PYR.
CORE #4 2087'-2117'. CORE 30', REC 30'. SAND, LT GRY, TRANSL, VFG-FGR, MOD WELL-SORTED, MOD
TIGHT - UNCONS; DOM QTZ; ABUND BIOT&MUSC; XLN & DISSEM PYR; CALCITE.

TIGHT - UNCONS; DOM QTZ; ABUND BIOT&MUSC; XLN & DISSEM PYR; CALCITE.
 CORE #5 2117'-2147'. CORE 30', REC 29½'. SANDSTONE, LT GRY, LT GRY-BRN, FGR, MOD WELL-CONS, PRLY SORTED, CALC MATRIX; TRACE WH MICA; DISSEM PYR; TRACE LIGNITE; TRACE DK GRY SHALE
 CORE #6 2147'-2177'. CORE 30', REC 8½'. SANDSTONE, LT-MD GRY, FGR, MOD WL-SORTED, SBANG, FR UNCONS, BIOT & MUSC, ABUND CALCITE.

CORE #7 2177'-2207'. CORE 30', REC 28'. SANDSTONE, LT GRY, GTZ, FGR-VFG, MOD WL-SORTED, SBANG, UNCONS, BIOT & MUSC, ABUND CALCITE.
FRM-FRI; BIOT & MUSC, ABUND CALCITE, TR LIGNITE.

CORE #8 2207'-2237'. CORE 30', REC 22'. SAND, TRANSLUCENT, VFG, MOD WL-SORTED, SBANG, UNCONS
VERY CALC, MASSIVE, NO APPARENT MATRIX; RARE PLATY DK GRY SILTSTONE FRACES; ABUND MICA

CORE #9 2237'-2267'. CORE 30', REC 17½'. SAND, TRANSLUCENT, GRAIN-SUPPORTED, FGR, WELL-SORTED ANG-SBANG, DOM MASSIVE, STRUCTURELESS; TR BIOT, MUSC; ABUND CALC; TR LIGNITE; RARE VARIOGATED VOLC FRAGMENTS

CORE #10 2267'-2297'. CORE 30', REC 29'. SANDSTONE, LT GRY, QTZ, F-VFG, MOD SORTED, FRM-FRI, SBANG, ARG, SLIGHTLY CALC, MUSC & BIOT, TR LIGNITE; CLAY, LT GRY, V SFT, SLTLY STICKY, SOLUBLE.

CORE #11 2297'-2327'. CORE 30', REC 21'. SANDSTONE, TRANSLUCENT, VFG-FGR, WELL-SORTED, ARG-SBANG. MASSIVE. LOOSE. V POROUS & PERMI. ABUND. LIG. CALCS. MUSC. BIOT.

SBANG, MASSIVE, LOOSE, V POREUS & PERM; ABUND LIG, CALC, MUSC, BIOT; FEW LIGNITE SEAMS
VARYING AMTS OF DK GRY SILTSTONE FRAGS, FRI